Kettle

HD4685/30/A

Service
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Philips Consumer Lifestyle

ServiceManual

PRODUCT INFORMATION

- Product meets the requirements regarding interference suppression on radio and television.
- After the product has been repaired, it should function properly and has to meet the safety requirements as laid down officially established at this moment.

TECHNICAL INFORMATION

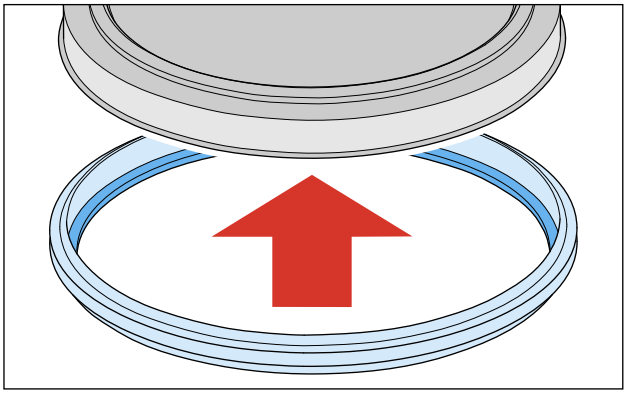
- Voltage	:	220 - 240 V
- Frequency	:	50 - 60 Hz
- Power consumption	:	2000 - 2400 W
- Contents Kettle	:	500 - 1000 cc
- Temperature setting	:	40, 60, 80, 100 °C
- Temperature indication	:	4x LED
- Keep warm function	:	40, 60, 80, 100 °C
- Boil ready signal	:	Buzzer
- On/off indication	:	Light ring on/off button
- Color setting	:	White / Steel
- SAP coding	:	HD4685/30/A

DISASSEMBLY- AND RE-ASSEMBLY ADVISE

- For this type the heating element and electronics can not be replaced!

- **Disassembly Gasket.**
  Remove the base by unscrewing the3 Torx screws.
  Open the lid and gently push (force maybe needed) on the inside of the heater.
  The heater and Gasket will move out of the Kettle body.
  Remove the Gasket from the heater.

- **Re-assembly the gasket and heater assy.**
  Place the gasket on the heater assy.
  (see picture for placement details.)



Make the outside of the gasket and the inside of the Kettle housing were the gasket will be placed wet with plain water.
Gently push the heater assy with gasket equable in the Kettle body.
While pushing inwards check if the gasket keeps well around the heater assy.
Check visual if the gasket is correct placed.
By filling the kettle with plain water and leaving it for half an hour, you can check if the gasket is properly sealing the Kettle.
Fix the base again.
Check the functions of the Kettle.

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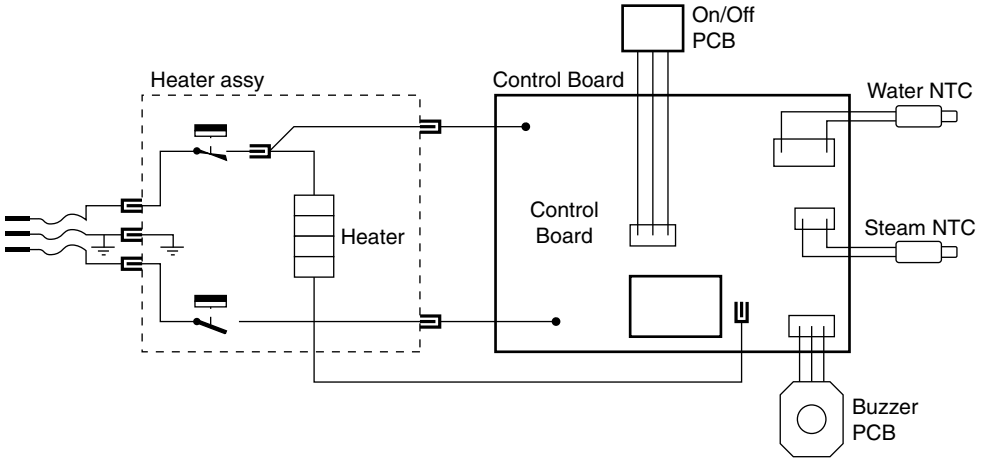
- **Electrical circuit:**
  When the appliance does not work, check the electrical circuit.



- **Selftest electronics:**
  (Assumption is that the temperature of both NTC's is < 40 °C, otherwise below table is not correct)

Step	Action	Led On	Led 40 °C	Led 60 °C	Led 80 °C	Led 100 °C	Led Keep warm	Buzzer
1	Operate On/Off button and keep operated until step 5							
2	Apply mains voltage	on						
If any NTC circuit is not functioning correct, further testing is being disabled and an NTC error code is generated (see NTC error below)								
3.0	Operate Set Temp on	on	on					
3.1	Operate Set Temp on	on		on				
3.2	Operate Set Temp on	on			on			
3.4	Operate Set Temp on	on				on		
4.0	Operate Keep Warm	on					on	
4.1	Operate Keep Warm (check on Water NTC)	on	on	on				
4.2	Operate Keep Warm (check on Steam NTC)	on			on	on		
4.3	Operate Keep Warm (check on buzzer)	on						on
5.0	Release On/Off button	all of						

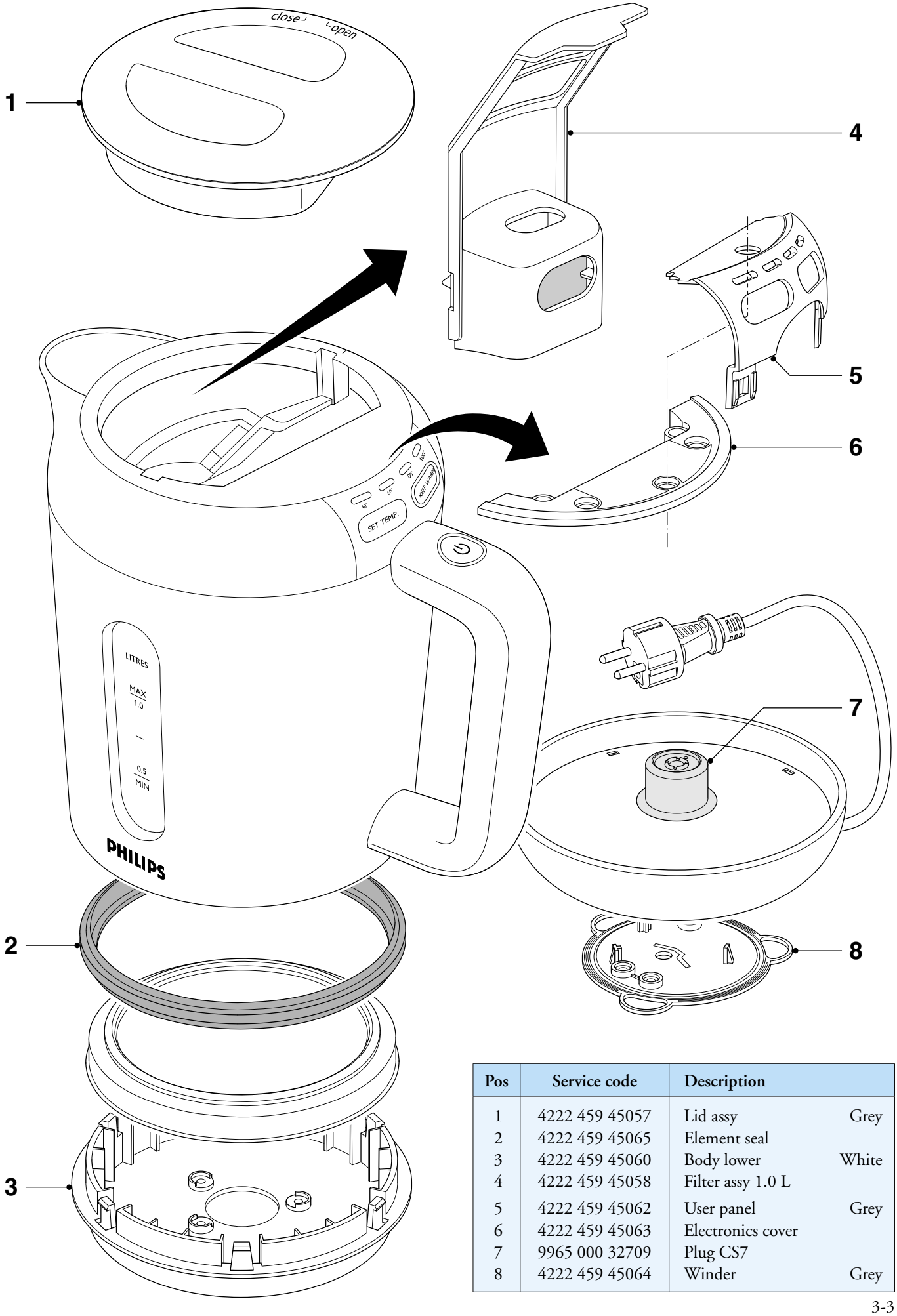
- **NTC errors:**
  On/off led off, two leds blinking alternately:
  Led 60 & Led 80 → Water NTC out of range
  Led 60 & Led 100 → Steam NTC out of range
  Led 80 & Led 100 → Both NTC's out of range.

- **De-scaling**
  Fill the kettle with water up to three-quarters of the maximum level indication and press the on/off switch.
  After the kettle has switched itself off, add white vinegar (8% acetic acid) or an appropriate descaler up to the maximum level indication.
  Leave the solution in the kettle overnight.
  Empty the kettle and rinse the inside thoroughly.
  Repeat this procedure if there is still some scale left in the kettle.

- **Cleaning filter**
  Clean the filter by rinsing it under a running tap.
  If necessary, you can use a soft nylon brush.
  The scale filter can also be cleaned in the dishwasher or clean the filter by de-scaling it in the same way as the kettle.
  Let the filter soak in a cup of warm water with some white vinegar or an appropriate descaler.
  Take the filter out of the cup and rinse it thoroughly.

OPTIONAL (accessories)

- Tripple action Filter : HD4990



Pos	Service code	Description	
1	4222 459 45057	Lid assy	Grey
2	4222 459 45065	Element seal	
3	4222 459 45060	Body lower	White
4	4222 459 45058	Filter assy 1.0 L	
5	4222 459 45062	User panel	Grey
6	4222 459 45063	Electronics cover	
7	9965 000 32709	Plug CS7	
8	4222 459 45064	Winder	Grey